CASGEM Groundwater Basin Prioritization Results													Compo	onent I	Ranking	Value			Overa	II Ranking	
				6			Grou	ndwatei	r Reliance				T								
				Growth	oly Wells	*	Acreage		*	8			Overall Basin	Overall Basin	Impact Comments Other Information Comments						
Basin	Basin			Hydrologic	DWR	Basin	Area	2010	lation	ulation	c Supply	Wells	ted A	Use **	nt of Supply	eliano	cts		Ranking Score ***	Duianitus	
count	Number	Basin Name	Sub-Basin Name	Region	Region Office	Acres	Sq. Mile	Population	Popu	Popu	Public	Total	Irrigated	פא ר	Percent o	GW R Total	Impacts	Othe			
1	5-22.01	SAN JOAQUIN VALLEY	EASTERN SAN JOAQUIN	San Joaquin River	NCRO	707,073	1,104.8	582,662	2	4	3	3	5	4	3	3.5	3	2	25.5	High	Estimated that 70,000 af/year of overdraft occurs in northeastern San Joaquin County and about 35,000 af/year of overdraft occurs in the Stockton East Water District (B-118) & (USBR 1996). Basin experiencing long term gw overdraft 160,000AF/yr (local GWMP areas of nitrate contamination are located in the subbasin.
2	5-21.64	SACRAMENTO VALLEY	NORTH AMERICAN	Sacramento River	NCRO	340,170	531.5	832,746	3	3	4	3	4	5	2	3.5	1	1	22.5	High	From B118: Elevated levels of TDS, chloride, sodium, bicarbonate, boron, fluoride, nitrate, iron manganese, and arsenic may be of concern in some locations (DWR 1997). There are 3 sites with significant groundwater contamination in the basin. From B118: groundwater levels in southwestern Placer Cour northern Sacramento County have generally declined with n wells declining at a rate of about one and one-half feet per year foliast 40 years or more (PCWA
3	5-21.65	SACRAMENTO VALLEY	SOUTH AMERICAN	Sacramento River	NCRO	247,745	387.1	718,113	3	3	4	3.75	3	3	2	2.5	3	0	22.3	High	From B118: Montgomery Watson (1997) listed seven sites within the subbasin with significant groundwater contamination. From Sac County GWMP: Overall decreasing groundwater level trend over past 50 years (~30ft)
4		SACRAMENTO VALLEY	YOLO	Sacramento River	NCRO	225,718	352.7	194,158	2	3		3.75	5	5	2	3.5	2	0	22.3	High	Localized TDS problems preclude using gw for some M&I uses without treatment. Some subsidence in northeast of Davis and in northern Yolo.
5	2-2.01	NAPA-SONOMA VALLEY	NAPA VALLEY	San Francisco Bay	NCRO	45,895	71.7	91,234	3	1	5	3.75	4	3	3	3	1	0	20.8	Medium	Two isolated areas in the Sonoma Valley indicate substantial declines in gw elevations and RWQCB report that 43 underground fuel tank leaks have occurred in the basin (unpublished B-118 data) (Ludhorff & Scalmanini Consulting Engineers, 1999).
6	2-9.02	SANTA CLARA VALLEY	SANTA CLARA	San Francisco Bay	NCRO	190,235	297.2	1,633,190	5	2	4	3.75	0	5	4	4.5	1	0	20.3	Medium	Areas with elevated mineral levels have been observed in the northern basin (SCVWD 2001). Elevated nitrate in some wells in the southern portion of the Basin (SCVWD).
7	2-9.01	SANTA CLARA VALLEY	NILES CONE	San Francisco Bay	NCRO	57,906	90.5	321,494	4	1	3	3.75	1	4	4	4	3	0	19.8	Medium	
8	5-22.15	SAN JOAQUIN VALLEY	TRACY	San Joaquin	NCRO	344,884	538.9	268,175	2	4	3	3	5	1	1	1	1	0	19.0	Medium	Poor water quality throughout the subbasin.(B-118)
9		SANTA ROSA VALLEY	SANTA ROSA PLAIN	River North Coast	NCRO	80,059	125.1	250,375		2		3.75	3	2	2	2	0	0	18.8	Medium	
10	2-1	PETALUMA VALLEY		San Francisco Bay	NCRO	46,043	71.9	49,915	2	3	3	3.75	3	1	2	1.5	2	0	18.3	Medium	Widespread and serious nitrate contamination affecting shallow wells in the upland area NW of Petaluma. Generally poor quality gw south of Petaluma. Potential for seawater intrusion in tidal reaches. Increasing MTBE contamination.(B-118 unpublished data).
11	6-5.01	TAHOE VALLEY	TAHOE SOUTH	North Lahontan	NCRO	14,814	23.1	25,967	3	0	5	3.75	0	4	5	4.5	2	0	18.3	Medium	STPUD reports that MTBE has had a major impact on the groundwater supply within its service area, resulting in 12 of 34 production wells unusable and the destruction of 2 wells. (B-118) & (Berghson 2000)
12	5-21.62	SACRAMENTO VALLEY	SUTTER	Sacramento	NCRO	234,264	366.0	82,125	1	4	2	3	5	4	1	2.5	0	0	17.5	Medium	
13	2-10	LIVERMORE VALLEY		San Francisco Bay	NCRO	69,531	108.6	196,658	3	3	3	3.75	2	1	2	1.5	1	0	17.3	Medium	Some areas have boron concentrations exceeding 2 mg/L (B-118 & Sorenson et. al. 1985).
14	6-67	MARTIS VALLEY		North Lahontan	NCRO	36,381	56.8	14,743	2	4	3	3	0	3	5	4	0	1	17.0	Medium	Strong SW-GW interaction with Martis Creek, as per 2013 G
15	2-2.02	NAPA-SONOMA VALLEY	SONOMA VALLEY	San Francisco Bay	NCRO	44,626	69.7	31,275	2	1	3	3.75	4	1	2	1.5	1	0	16.3	Medium	Brackish water occurs in deposits near San Pablo Bay and along the tidal portions of Sonoma creek. RWQCB reports 43 underground fuel tank leaks have occurred in the basin (unpublished B-118 data) (Ludhorff & Scalmanini,
16	1-52	UKIAH VALLEY		North Coast	NCRO	37,508	58.6	32,761	. 2	1	3	3.75	3	2	2	2	0	1	15.8	Medium	2010 Ukiah Valley Water Supply Assessment expresses conc regarding SWRCB assertion that all or most of the "groundw the basin is, for legal purposes, underflow from the Russian and associated tributarieswhich support endangered fisher
17	5-21.66	SACRAMENTO VALLEY	SOLANO	Sacramento River	NCRO	424,832	663.8	119,263	1	3	2	3	5	2	1	1.5	0	0	15.5	Medium	
18	5-22.16	SAN JOAQUIN VALLEY	COSUMNES	San Joaquin River	NCRO	280,490	438.3	59,163	1	2	2	3	3	4	4	4	0	0	15.0	Medium	
19	2-9.04	SANTA CLARA VALLEY	EAST BAY PLAIN	San Francisco Bay	NCRO	77,292	120.8	881,718	5	1	1	3.75	1	0	0	1	2	0	14.8	Medium	SFRWQCB (1999) identified 13 locations as areas of major groundwater pollution. Most contamination appears to be restricted to the upper 50 feet of the subsurface. (B-118) &
20	5-21.61	SACRAMENTO VALLEY	SOUTH YUBA	Sacramento	NCRO	104,486	163.3	45,014	2	1	3	3	4	2	1	1.5	0	0	14.5	Medium	(RWOCR 1999)
21	5-21.60	SACRAMENTO VALLEY	NORTH YUBA	River Sacramento	NCRO	103,152	161.2	14,667	1	1	2	2.25	4	4	2	3	0	1	14.3	Medium	Strong SW-GW interaction with Feather and Yuba River
22	5-21.68	SACRAMENTO VALLEY	CAPAY VALLEY	River Sacramento	NCRO	24,970	39.0	550	1	0	1	3	3	2	3	2.5	1	0	11.5	Low	moderate to high levels of boron.
				River	<u> </u>														1		

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					owth	Wells		age	1	*		-		Overall	Overall							
			T	, , , , , , , , , , , , , , , , , , ,					u C	n Gr	pply	* S	Acre	*	of pply *	nce		u o	Basin Ranking	Basin	Impact Comments Other Information Commer	Other Information Comments
	Basin	Basin Name	Sub-Basin Name	Hydrologic	DWR Region	Basin A	rea	2010	ulatic	opulation	ic Su	I Wells	Irrigated	GW Use	Percent c Total Sup	Relian	Impacts	er rmat	Score ***			
count Nu	ımber			Region	Office	Acres S	q. Mile	Population	Рор	Pop	Public	Total	Irrig	δ	Perc Tota	GW R Total	d U	Oth				
23	2-3	SUISUN-FAIRFIELD VALLEY		San Francisco Bay	NCRO	133,505	208.6	136,754	2	5	1	2.25	2	0	0	0	0	0	0.0	Very Low		
24 1	1-59	WILSON GROVE FORMATION HIGHLANDS		North Coast	NCRO	86,400	135.0	37,799	2	0	4	3.75	2	0	0	0	0	0	0.0	Very Low		
25 2-	-2.03	NAPA-SONOMA VALLEY	NAPA-SONOMA	San Francisco	NCRO	40,455	63.2	58,367	2	0	2	3	2	2	1	0	0	0	0.0	Very Low		
26 2-	-9.03	SANTA CLARA VALLEY	SAN MATEO PLAIN	Bay San Francisco	NCRO	37,708	58.9	291,899	5	3	2	3.75	1	0	0	1.0	1	0	0.0	Very Low	2003 Water Board Study of South Bay groundwater basins	
27 (6-8	BRIDGEPORT VALLEY		Bay North Lahontan	NCRO	32,545	50.9	586	1	0	2 (0.75	4	0	1	0	0	0	0.0	Very Low		
28 2	2-35	WESTSIDE		San Francisco	NCRO	25,386	39.7	351,235	5	2	4	3.75	1	0	0	0	0	0	0.0	Very Low		
29 1-5	54.01	ALEXANDER VALLEY	ALEXANDER AREA	Bay North Coast	NCRO	24,464	38.2	2,098	1	0	4	3.75	4	0	1	0	0	0	0.0	Very Low		
		FORT BRAGG TERRACE AREA		North Coast	NCRO	24,085	37.6	12,517	2	1		3.75	2	1	1	0	1	0	0.0	Very Low	The terrace deposits between Ten Mile River and Laguna Point and	
24 2	200	NOVATO VALLEY		Can For	NCCC	20.540	22.4	12.545				2.75					1	_		\/- ·	Alder Creek and Point Arena are susceptible to seawater intrusion. (B-118).	
		NOVATO VALLEY		San Francisco Bay	NCRO	20,519	32.1	42,516		2		3.75	3	0	0	0	0	0	0.0	Very Low		
32 (6-7	ANTELOPE VALLEY		North Lahontan	NCRO	20,125	31.4	876	1	0	3	2.25	5	0	1	0	0	0	0.0	Very Low		
33	2-5	CLAYTON VALLEY		San Francisco Bay	NCRO	17,836	27.9	73,287	4	1	2	3.75	1	1	1	0	0	0	0.0	Very Low		
34 2	2-11	SUNOL VALLEY		San Francisco Bay	NCRO	16,623	26.0	808	1	0	0 :	2.25	1	1	3	0	0	0	0.0	Very Low		
35 2	2-6	YGNACIO VALLEY		San Francisco Bay	NCRO	15,459	24.2	107,878	5	1	2	3.75	1	1	1	0	1	0	0.0	Very Low	Hydrographs created from DWR well data indicate groundwater levels have declined gradually over the period of record.(B-118)	
		SANTA ROSA VALLEY	HEALDSBURG AREA	North Coast	NCRO	15,400	24.1	10,515		0		3.75	4	0	0	0	0	0	0.0	Very Low		
		PITTSBURG PLAIN		San Francisco Bay	NCRO	11,607	18.1	68,898	4	3		3.75	0	2	1	0	0	0	0.0	Very Low		
38 (6-6	CARSON VALLEY		North Lahontan	NCRO	10,716	16.7	328		0	3	2.25	3	0	0	0	0	0	0.0	Very Low		
39 2	2-22	HALF MOON BAY TERRACE		San Francisco Bay	NCRO	9,189	14.4	19,825	3	3	5	3.75	3	1	3	0	0	0	0.0	Very Low		
40 1	1-49	ANNAPOLIS OHLSON RANCH FM HIGHLANDS		North Coast	NCRO	8,646	13.5	233	1	0	0 :	2.25	1	1	2	0	0	0	0.0	Very Low		
		FORT ROSS TERRACE DEPOSITS		North Coast	NCRO	8,483	13.3	1,075		2	4	3	0	1	4	0	1	0	0.0	Very Low	Seawater intrusion is not a common problem but it has occurred in localized areas near Point Arena and Iverson Point (DWR 1982). The Terrace deposits between Alder Creek and Point Arena are susceptible to seawater intrusion (DWR 1982, & B-118).	
		POTTER VALLEY DOWNTOWN		North Coast San Francisco	NCRO NCRO	8,237 7,635	12.9 11.9	1,145 323,721		1		3.75 3.75	0	0	0	0	1	0	0.0	Very Low Very Low	Groundwater is subject to high concentrations of nitrates, chloride,	
44 5	5-68	POPE VALLEY		Bay Sacramento	NCRO	7,177	11.2	110	1	0	0	1.5	4	2	1	0	0	0	0.0	Very Low	boron and TDS (B-118) & (Phillips et.al. 1993).	
		SAN RAMON VALLEY		River San Francisco	NCRO	7,053	11.0	30,112		2		3.75	1	1	1	0	0	0	0.0	Very Low		
		LOWER RUSSIAN RIVER VALLEY		Bay				3,754													Brackish water found in wells near the Russian River from the river mouth	
46 1	1-60	LOWER RUSSIAN RIVER VALLEY		North Coast	NCRO	6,640	10.4	3,754	2	2	5	3	3	2	1	0	1	0	0.0	Very Low	to below Duncan Mills (5 to 6 miles). During a period of extremely low streamflow, saline water might extend 10 miles upstream from river mouth to Monte Rio.(B-118).	
47 1-5	54.02	ALEXANDER VALLEY	CLOVERDALE AREA	North Coast	NCRO	6,525	10.2	8,297	2	4	5	3.75	4	2	3	0	1	0	0.0	Very Low	Elevated Boron detected in 3 of 3 wells (B-118). Site in Southern Cloverdale is on the EPA's Superfund Priority List (MGM Brakes) VOCs detected in gw (FPA 1983).	
48 6-	-5.02	TAHOE VALLEY	TAHOE WEST	North Lahontan	NCRO	6,173	9.6	3,110	2	0	5	3.75	0	1	4	0	0	0	0.0	Very Low		
		SLAIS VALLEY		San Francisco Bay	NCRO	5,937	9.3	131,576	5	1		3	0	0	0	0	0	0	0.0	Very Low		
50 2	2-32	VISITACION VALLEY		San Francisco Bay	NCRO	5,827	9.1	31,853	4	4	0	3.75	0	0	1	0	0	0	0.0	Very Low		
		SANEL VALLEY SANTA ROSA VALLEY	RINCON VALLEY	North Coast North Coast	NCRO NCRO	5,568 5,549	8.7 8.7	698 21,787	1 4	0		3 3.75	4	2 2	3	0	0	0	0.0	Very Low Very Low		
		KENWOOD VALLEY	MINCON VALLEY	San Francisco	NCRO	5,549	8.7	6,057		1		3.75	3	1	1	0	0	0	0.0	Very Low		
		ANDERSON VALLEY		Bay North Coast	NCRO	4,969	7.8	1,297		5		3.75	3	1	1	0	0	0	0.0	Very Low		
55 6-	-107	SWEETWATER FLAT		North Lahontan	NCRO	4,747	7.4	0	0	0	0	0	1	0	0	0	0	0	0.0	Very Low		
56 6-	-105	SLINKARD VALLEY		North Lahontan	NCRO	4,517	7.1	0	0	0	0	0	0	0	0	0	0	0	0.0	Very Low		

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		CASGEM G		Growth	ply Wells	* *	Acreage	Grou	ndwater * <u>~</u>	Relianc	e		ے	Overall Basin	Overall Basin	Impact Comments	Other Information Comments						
Basin count	Basin Number	Basin Name	Sub-Basin Name	Hydrologic Region	DWR Region Office	Basin Ar		2010 Population	Population	Population	Public Supply	Total Wells	Irrigated A	GW Use **	Percent of Total Suppl	GW Relian Total	Impacts	Other	so sa	Ranking core ***	Priority		
57	1-50	KNIGHTS VALLEY		North Coast	NCRO	4,086	6.4	102	1	0	0	2.25	4	2	4	0	0	0		0.0	Very Low		
58	2-26	PESCADERO VALLEY		San Francisco	NCRO	2,904	4.5	571	1	0	4	3	3	0	0	0	0	0		0.0	Very Low		
59	1-57	BODEGA BAY AREA		Bay North Coast	NCRO	2,676	4.2	719	1	0	5	3	0	2	5	0	0	0	+	0.0	Very Low		
60		LITTLE ANTELOPE VALLEY		North Lahontan	NCRO	2,491	3.9	0	0	0	J	0.75	3	0	0	0	0			0.0	Very Low		
61	2-38	LOBOS		San Francisco Bay	NCRO	2,359	3.7	59,119	5	0	0	2.25	0	0	0	0	1	0		0.0	Very Low	Limited water quality data but basins beneath the entire San Francisco peninsula are similar (Phillips et.al. 1993). May contain high concentrations of nitrates, chloride, boron and TDS.(B-118)	
62	1-20	GARCIA RIVER VALLEY		North Coast	NCRO	2,242	3.5	119	1	0	0	2.25	3	2	1	0	0	0		0.0	Very Low		
63	2-39	MARINA		San Francisco Bay	NCRO	2,186	3.4	45,294	5	0	0	2.25	0	0	0	0	1	0		0.0	Very Low	Limited water quality data but basins beneath the entire San Francisco peninsula are similar (Phillips et.al. 1993). May contain high concentrations of nitrates, chloride, boron and TDS.(B-118)	
64	2-37	SOUTH SAN FRANCISCO		San Francisco Bay	NCRO	2,175	3.4	38,861	5	1	0	3.75	0	0	0	0	0	0		0.0	Very Low		
65	1-38	LOWER LAYTONVILLE VALLEY		North Coast	NCRO	2,152	3.4	107	1	0	0	2.25	2	1	1	0	0	0		0.0	Very Low		
66	6-5.03	TAHOE VALLEY	TAHOE NORTH	North Lahontan	NCRO	1,931	3.0	3,410	3	0	5	3	0	3	4	0	0	0		0.0	Very Low		
67	2-8	CASTRO VALLEY		San Francisco Bay	NCRO	1,821	2.8	24,486	5	0	0	3.75	0	2	1	0	0	0		0.0	Very Low		
68	2-28	ROSS VALLEY		San Francisco Bay	NCRO	1,763	2.8	7,194	4	2	0	3	1	0	0	0	0	0		0.0	Very Low		
69	1-45	BIG RIVER VALLEY		North Coast	NCRO	1,685	2.6	29	1	0	5	1.5	0	0	0	0	0	0		0.0	Very Low		
70		WILLIAMS VALLEY		North Coast	NCRO	1,642	2.6	2	0			2.25	2	0	0	0	0			0.0	Very Low		
71		TEN MILE RIVER VALLEY		North Coast	NCRO	1,491	2.3	61	1	0	0	3	0	0	0	0	0	_		0.0	Very Low		
72 73		McDOWELL VALLEY SAND POINT AREA		North Coast San Francisco	NCRO NCRO	1,486 1,405	2.3	106 43	1	0		3.75 0.75	0	1	3 4	0	0			0.0	Very Low Very Low		
74	1-39	BRANSCOMB TOWN AREA		Bay North Coast	NCRO	1,381	2.2	95	1	0	0	3	1	1	1	0	0	0	-	0.0	Very Low		
75	1-39	EDEN VALLEY	1	North Coast	NCRO	1,376	2.2	0	0	0	0	0	3	3	3	0	0	_	\top	0.0	Very Low		
76	5-20	BERRYESSA VALLEY		Sacramento River	NCRO	1,375	2.1	0	0	0		0.75	0	0	0	0	0	_		0.0	Very Low		
77	1-42	SHERWOOD VALLEY		North Coast	NCRO	1,150	1.8	13	1	0	0	1.5	0	0	0	0	0	0		0.0	Very Low		
78	2-24	SAN GREGORIO VALLEY		San Francisco Bay	NCRO	1,074	1.7	66	1	0	0	2.25	3	0	0	0	0	0		0.0	Very Low		
79	2-29	SAN RAFAEL VALLEY		San Francisco Bay	NCRO	874	1.4	10,153	5	1	0	3.75	0	0	0	0	0	0		0.0	Very Low	_	
80	1-41	LITTLE VALLEY		North Coast	NCRO	812	1.3	11	1	0	0	1.5	2	0	0	0	0			0.0	Very Low		
81		ARROYO DEL HAMBRE VALLEY		San Francisco Bay	NCRO	786	1.2	3,230		0	0	0	0	0	0	0	0			0.0	Very Low		
82		NAVARRO RIVER VALLEY		North Coast	NCRO	770	1.2	36	1	0	0	1.5	0	0	0	0	0		_	0.0	Very Low		
83		COTTONEVA CREEK VALLEY		North Coast	NCRO	763	1.2		0	0	0	1.5	0	0	0	0	0	_	+	0.0	Very Low		
84	6-108	OLYMPIC VALLEY		North Lahontan	NCRO	702	1.1	471	2	0	5	2.25	0	0	0	0	0	0		0.0	Very Low		
85		SAN PEDRO VALLEY	11. 25%	San Francisco Bay	NCRO	702	1.1	5,956	5	0	0	3.75	1	0	0	0	0	0		0.0	Very Low		

NOTE: * Data component values were reduced by 25% due to data confidence, prior to calculating total GW basin ranking value

** Sub-fields that are used to determine the overal GW Reliance Total ((GW Use + GW %)/2)

*** Overall Basin Ranking Score = Population + Population Growth + PSW + (Total Wells x .75) + Irr Acreage + (GW Use + GW %)/2 + Impacts + Other